Dado honesto

	0	1	2	3	4	5	6
0	0	1/6	1/6	1/6	1/6	1/6	1/6
1	1/6	0	1/6	1/6	1/6	1/6	1/6
2	1/6	1/6	0	1/6	1/6	1/6	1/6
3	1/6	1/6	1/6	0	1/6	1/6	1/6
4	1/6	1/6	1/6	1/6	0	1/6	1/6
5	1/6	1/6	1/6	1/6	1/6	0	1/6
6	1/6	1/6	1/6	1/6	1/6	1/6	0

	0,00	1,00	2,00	3,00	4,00
0,00	0,00	1,00	0	0	0
1,00	0,25	0,00	0,75	0	0
2,00	0,00	0,50	0	0,50	0
3,00	0,00	0,00	0,75	0	0,25
4,00	0,00	0,00	0	1	0

probabilidade do caminho

4 -- 3 -- 2 --3 -- 4 --3 --2
1 3/4
1,00 0,75

```
     [,1] [,2] [,3] [,4] [,5]
[1,] 0.00  1.0 0.00  0.0 0.00
[2,] 0.25  0.0 0.75  0.0 0.00
[3,] 0.00  0.5 0.00  0.5 0.00
[4,] 0.00  0.0 0.75  0.0 0.25
[5,] 0.00  0.0 0.00  1.0 0.00
> matriz = matrix(data = c(0,1/4,0,0,0,1,0,1/2,0,0,0,3/4,0,3/4,0,0,0,1/2,0,1,(
>
> print(matriz)
     [,1] [,2] [,3] [,4] [,5]
[1,] 0.00  1.0 0.00  0.0 0.00
[2,] 0.25  0.0 0.75  0.0 0.00
[3,] 0.00  0.5 0.00  0.5 0.00
[4,] 0.00  0.0 0.75  0.0 0.25
[5,] 0.00  0.0 0.00  1.0 0.00
>
> matriz4 = matriz %*% matriz %*% matriz
>
> matriz4
        [,1]  [,2] [,3]  [,4]    [,5]
[1,] 0.00000 0.625 0.00 0.375 0.00000
[2,] 0.15625 0.000 0.75 0.000 0.09375
[3,] 0.00000 0.500 0.00 0.500 0.00000
[4,] 0.09375 0.000 0.75 0.000 0.15625
[5,] 0.00000 0.375 0.00 0.625 0.00000
> matriz = matrix(data = c(0,1/4,0,0,0,1,0,1/2,0,0,0,3/4,0,3/4,0,0,0,1/2,0,1,(
>
> print(matriz)
     [,1] [,2] [,3] [,4] [,5]
[1,] 0.00  1.0 0.00  0.0 0.00
[2,] 0.25  0.0 0.75  0.0 0.00
```

```
[3,] 0.00  0.5 0.00  0.5 0.00
[4,] 0.00  0.0 0.75  0.0 0.25
[5,] 0.00  0.0 0.00  1.0 0.00
>
> matriz4 = matriz %*% matriz %*% matriz  %*% matriz
>
> matriz4
        [,1]    [,2] [,3]    [,4]    [,5]
[1,] 0.15625 0.00000 0.75 0.00000 0.09375
[2,] 0.00000 0.53125 0.00 0.46875 0.00000
[3,] 0.12500 0.00000 0.75 0.00000 0.12500
[4,] 0.00000 0.46875 0.00 0.53125 0.00000
[5,] 0.09375 0.00000 0.75 0.00000 0.15625
>
> matriz = matrix(data = c(0,1/4,0,0,0,1,0,1/2,0,0,0,3/4,0,3/4,0,0,0,1/2,0,1,(
>
> print(matriz)
     [,1] [,2] [,3] [,4] [,5]
[1,] 0.00  1.0 0.00  0.0 0.00
[2,] 0.25  0.0 0.75  0.0 0.00
[3,] 0.00  0.5 0.00  0.5 0.00
[4,] 0.00  0.0 0.75  0.0 0.25
[5,] 0.00  0.0 0.00  1.0 0.00
>
> matriz4 = matriz %*% matriz %*% matriz  %*% matriz
>
> matriz4
        [,1]    [,2] [,3]    [,4]    [,5]
[1,] 0.15625 0.00000 0.75 0.00000 0.09375
[2,] 0.00000 0.53125 0.00 0.46875 0.00000
[3,] 0.12500 0.00000 0.75 0.00000 0.12500
[4,] 0.00000 0.46875 0.00 0.53125 0.00000
[5,] 0.09375 0.00000 0.75 0.00000 0.15625
>
> data2 = c(1/5,1/5,1/5,1/5,1/5)
>
> M = data2*matriz4
>
> M
        [,1]    [,2] [,3]    [,4]    [,5]
[1,] 0.03125 0.00000 0.15 0.00000 0.01875
[2,] 0.00000 0.10625 0.00 0.09375 0.00000
[3,] 0.02500 0.00000 0.15 0.00000 0.02500
[4,] 0.00000 0.09375 0.00 0.10625 0.00000
[5,] 0.01875 0.00000 0.15 0.00000 0.03125
> matriz = matrix(data = c(0,1/4,0,0,0,1,0,1/2,0,0,0,3/4,0,3/4,0,0,0,1/2,0,1,(
>
> print(matriz)
     [,1] [,2] [,3] [,4] [,5]
[1,] 0.00  1.0 0.00  0.0 0.00
```

```
[2,] 0.25  0.0 0.75  0.0 0.00
[3,] 0.00  0.5 0.00  0.5 0.00
[4,] 0.00  0.0 0.75  0.0 0.25
[5,] 0.00  0.0 0.00  1.0 0.00
>
> matriz4 = matriz %*% matriz %*% matriz  %*% matriz
>
> matriz4
        [,1]    [,2] [,3]    [,4]    [,5]
[1,] 0.15625 0.00000 0.75 0.00000 0.09375
[2,] 0.00000 0.53125 0.00 0.46875 0.00000
[3,] 0.12500 0.00000 0.75 0.00000 0.12500
[4,] 0.00000 0.46875 0.00 0.53125 0.00000
[5,] 0.09375 0.00000 0.75 0.00000 0.15625
>
> data2 = c(1/5,1/5,1/5,1/5,1/5)
>
> M = data2 %*% matriz4
>
> M
      [,1] [,2] [,3] [,4]  [,5]
[1,] 0.075  0.2 0.45  0.2 0.075
```

1/2 1/4 1 3/4

0,50 0,25 1 0,75 0,070313

```
0,0,0,1/4,0), ncol = 5, nrow = 5)
```

```
0,0,0,1/4,0), ncol = 5, nrow = 5)
```